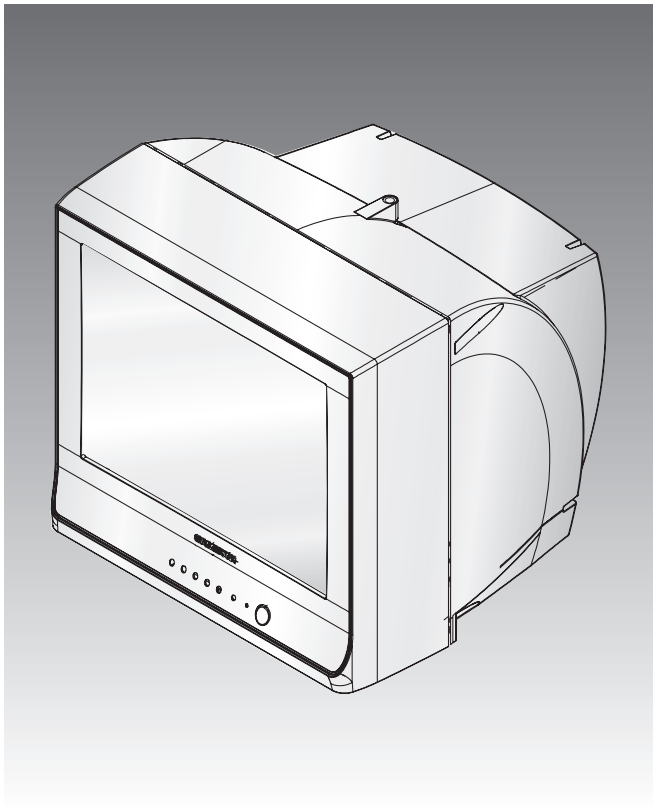
SAMSUNG

COLOR TELEVISION RECEIVER

Chassis : KS9A(N)
Model : TXP2011T/XAP

SERVICE Manual

COLOR TELEVISION RECEIVER



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1. Specifications

Regions	North America	South Central America	MEXICO
Broadcasting System	NTSC		
Tuning System	Electronic Remote Control System		
Receiving Channels	VHF (CH 2 ~ 13)		
	UHF (CH 14 ~ 69)		
	CATV (CH 1, 14 ~ 125)		
ANTENNA INPUT RESISTANCE	VHF, UHF 75 unbalanced		
Intermediate Frequency	Video : 45.75 MHz		
	Sound : 41.25 MHz		
	Chrominance Subcarrier: 42.17 MHz		
Power Supply	AC 120V, 60Hz	AC 100~240V, 60Hz	AC 120V, 60Hz

MEMO

2. Alignment and Adjustments

2-1 General Alignment Instructions

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.

2. Observe the picture for good black and white details. There should be objectionable color shading; if color shading is present, demagnetize, perform purity and convergence adjustments described below.

3. Use the specified test equipment or its equivalent.

4. Correct impedance matching is essential.

5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.

6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.

7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.

8. To protect against shock hazard, use an isolation transformer.

2-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set is moved or turned in a different direction, the power should be OFF for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before turning power OFF.

If color shading persists, perform the following Color purity and Convergence adjustments.

2-3 High Voltage Check

CAUTION : There is no high voltage adjustment on this chassis. The B+ power supply should be +135 volts (with full color- bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.

2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).

3. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 30 KV under any conditions.

2-4 FOCUS Adjustment

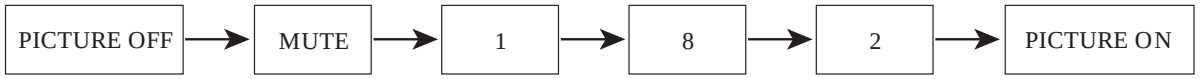
1. Iput a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

2-5 Factory Adjustment

2-5-1 Service Mode

1. To enter the "Service Mode", Press the remote-control keys in this sequence :

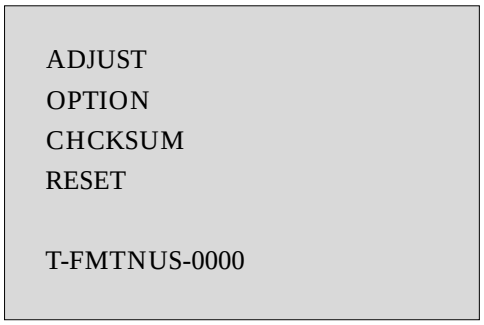
   - If you do not have Factory remote-control



   - If you have Factory remote-control

2-5-2 Factoy Mode OSD

2-5-2 ADJUST



T-FMTNUS FACTORY

No	Deflection	Remark	INITIAL	MIN	MAX	ADJUST
1	HS	Adjust	37	0	63	30
2	VA	Adjust	34	0	63	22
3	VSL	Adjust	30	0	63	23
4	VS	FIX	31	0	63	25
5	AGC	Adjust	33	0	63	33
6	CDL	FIX	9	0	15	9
7	SCT	Adjust	10	0	23	10
8	SBT	Adjust	7	0	23	7
9	BLR	Adjust	28	0	63	28
10	BLB	Adjust	43	0	63	43
11	RG	Adjust	30	0	63	30
12	GG	FIX	32	0	63	32
13	BG	Adjust	46	0	63	46
14	SC	FIX	29	0	63	33
15	STT	FIX	5	0	7	5
16	AKB	FIX	0	0	1	0
17	NDL	FIX	1	0	15	1
18	NSR	FIX	5	0	23	10
19	VOL	FIX	10	0	63	10
20	MVOL	FIX	7	0	50	7
21	RPO0	FIX	1	0	1	1
22	RPO1	FIX	1	0	1	1
23	CAP	FIX	12	0	15	12
24	FMWS	FIX	0	0	1	0
25	AGCS	FIX	1	0	3	1
26	OMD	FIX	15	0	63	15
27	SCL	FIX	3	0	3	3
28	PWL	FIX	13	0	15	15
29	MUS	FIX	1	0	1	1
30	SCBT	FIX	40	0	63	40
31	SSP	FIX	5	0	20	5
32	DNSR	FIX	17	0	23	10
33	DSBT	FIX	0	0	23	0
34	DCDL	FIX	6	0	16	9
35	DBLR	FIX	32	0	63	32
36	DBLB	FIX	32	0	63	32
37	DSK	FIX	0	0	1	0

Option

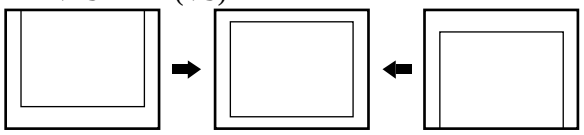
No	Item	Initial	21" FLAT	Remark
1	Video Mute	Off	Off	Video Mute time between the Channel changes
2	Audio	STEREO	STEREO	Audio MONO/STEREO Option
3	2ND SIF	EXTERNAL	EXTERNAL	SIF Option
4	Auto Power	Off	Off	Turns on automatically when the Master Power is turned ON
5	Audio Mute	On	On	Mutes the Audio when there is no source signal
6	Start Language	English	English	Preset OSD (On-Screen Display) language at time of purchase
7	Hotel Mode	Off	Off	
8	Blue Screen	On	On	Blue Screen when there is no source signal
9	V-Chip	Off	Off	
10	AV Option	AV1/2/DVD	AV1/2	Back Jack Option
11	AFN	Off	Off	

White Balance

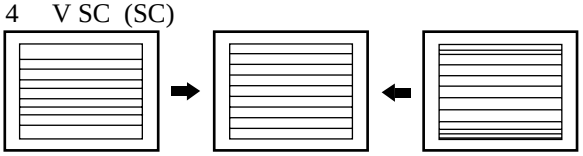
Item	21" FLAT	Remark
Hight Light	275/265/45FL	
Low Light	275/265/1.5FL	

2-6 Screen Change (I2C Bus Geometric Adjustment)

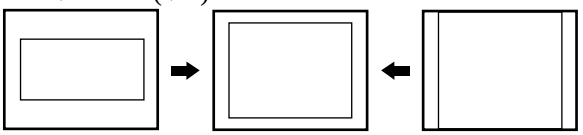
1 V SHIFT (VS)



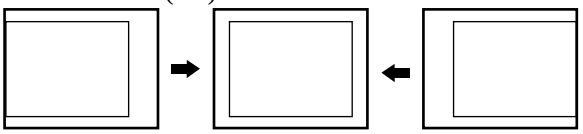
4 V SC (SC)



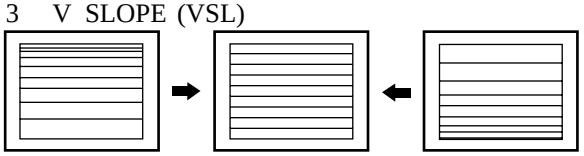
2 V AMP (VA)



5 H SHIFT (HS)



3 V SLOPE (VSL)



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Yon can search for the updated part code through ITSELF web site.
URL:http://itself.sec.samsung.co.kr

4. Electrical Part List

4-1 TXP2011T/XAP

Level	Loc.No.	Code No.	Description;Specification	Remark
			ASSY COVER FRONT	
1	M0001	AA90-04995P	ASSY COVER FRONT;TXP2011T/XAP	S.N.A
..2	M0081	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	S.N.A
..2	CCM1	AA60-10050R	SCREW-MACHINE;-,SWRCH18A,M5,L31.5,HH,+,W	
..2	T0081	AA60-10050T	SCREW-TAPPING;-,SWRCH18A,M4,L20,RH,+,2S,	S.N.A
..2	T0382	BP61-00495C	HOLDER-CARE;PJT,ACRYL-FOAM,T0.25,W30.0mm	S.N.A
..2	T0003	AA96-02056K	ASSY COVER P-FRONT;21N11,V0,G4309,SV012P	S.N.A
...3	M0081	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	S.N.A
...3	M0081	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	S.N.A
...3	M0081	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	S.N.A
...3	T0069	AA60-00091G	SPACER-FELT;-,FELT,200X10,-,-,BLK,T0.5,-	S.N.A
...3	T0069	AA60-00091R	SPACER-FELT;,FELT,250X10,,,BLK,T0.5,,	S.N.A
...3	T0156	AA61-00721C	HOLDER-RAIL;H4,HIPS,V0,GRAY	S.N.A
...3	T0607	AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	
...3	CIS7	AA61-60003J	SPRING ETC-CS;-,SUS304,-,-,OD6,N7,OD6,-,	S.N.A
...3	T0299	AA64-03652A	WINDOW-RMC LED;17N11,PC,CLEAR	S.N.A
...3	T0022	AA64-03653A	KNOB CONTROL;17N11,ABS,HB,G3676,SVM3012	S.N.A
...3	T0023	AA64-03654A	KNOB POWER;17N11,ABS,HB,G3676,SVM3012	S.N.A
...3	T0003	AA64-03922G	CABINET FRONT;21N11,HIPS,T2.0,V0,G4309,S	S.N.A
....4		AA61-40010A	BOSS-WING;-,HIPS,-,-,-,NTR,HB	S.N.A
...3	T0057	AA64-70123A	BADGE-BRAND;NEW,AL,L50,FLAT,SILVER,SAMSU	
...3	CIS1	AA65-00011C	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,	S.N.A
...3	CIS1	AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,	S.N.A
...3	T0175	AA96-00371B	ASSY SPEAKER P;-,8ohm,5W,3001-001072,350	S.N.A
....4	T0082	3001-001071	SPEAKER;5W,8OHM,90DB,180HZ	
....4	T0245	AA39-20505M	LEAD CONNECTOR-ASSY;,4P,350,700MM,YSH025	
...3	T0382	BP61-00509C	HOLDER-CARE;PJT,ACRYL-FOAM,T0.25,W20.0mm	S.N.A
			ASSY COVER REAR	
1	M0002	AA90-04996J	ASSY COVER REAR;21N11(SEA),HIPS V0,G4309	S.N.A
..2	T0069	AA60-00091J	SPACER-FELT;-,FELT,330X10,-,-,BLK,T0.5,-	S.N.A
..2	T0066	AA64-03873F	INLAY-BACK;21M16,20,PS,T0.3,SHEET,BLK,KS	S.N.A
..2	T0015	AA64-03923A	CABINET BACK;21N11[HQ],HIPS,V0,G4309	
..2	T0522	AA65-30008A	CLAMPER CORE-CORD;-,PE,HB,-,BLK,-	S.N.A
..2	CIS7	AA64-60421B	INLAY-COVER;-,PS,T0.3,-,-,BLK,AAFES	S.N.A
			ASSY CPT	
1	T0521	AA91-07326F	ASSY CPT;TXP2028X/XAA,0MG,A51QDX993X	S.N.A
⚠ ..2	T0063	AA03-00403A	CRT COLOR;A51QDX993X,0MG,1.75MH,18MH,3.1	
..2	T0079	AA27-00002A	MAGNET CONVERGENCE;JH291-11D,29.1MM	
..2	T0089	AA27-00213A	COIL DEGAUSSING;-,21INCH F,0.8MH,10%,23T	
⚠ ..2	T0078	AA27-00324A	DEFLECTION YOKE;,DIF-2192AA(A),S/T,A51QD	
..2	T0299	AA63-60028A	SPACER-DY;-,NEOPRENE,-,-,-,BLK,-,-,V0 W1	S.N.A
..2	T0527	AA65-00009B	CLAMPER CORE-D,COIL;21A8,NYLON 66,V0,-,-	
..2	T0603	AA98-70014D	ASSY TBC WIRE P;TVI,22,NTSC,PAL,1P,UL101	S.N.A
			ASSY CHASSIS	
1	M0017	AA91-07628C	ASSY CHASSIS;TXP2011X/XAP,KS9A	S.N.A
..2	M0014	AA94-14012C	ASSY PCB MAIN;TXP2011X/XAP,KS9A	
...3	T0245	0202-001366	SOLDER-WIRE FLUX;-,RS60S,D1.2,63Sn/37Pb,	S.N.A
...3	D402	0402-001599	DIODE-RECTIFIER;DGP30L,1500,3A,DO-201AD(	
...3	D805	0402-001603	DIODE-RECTIFIER;MUR480E,800V,4A,DO-201AD	
...3	D807	0402-001604	DIODE-RECTIFIER;MUR420,200V,4A,DO-201AD,	
⚠ ...3	PC801S	0604-001032	PHOTO-COUPLER;TR,170-260%,300mW,DIP-4,ST	
...3	IC112	1103-001209	IC-EEPROM;24C04,512x8,DIP,8P,10.16x7.11m	
...3	P803T	1404-001246	THERMISTOR-PTC;1.5OHM,+30/-20,110V,140VA	
⚠ ...3	CY801S	2201-002002	C-CERAMIC,DISC;4.7NF,20%,400V,Y5U,BK,16X	
⚠ ...3	CR401S	2303-000282	C-FILM,LEAD-PPF;6nF,5%,1.6KV,TP,29*23*8.	
⚠ ...3	CX801S	2306-000318	C-FILM,LEAD-PPF;220NF,20%,250V,BK,-,22.5	
...3	C801	2401-000822	C-AL;220uF,20%,200V,WT,BK,22x35,10	
...3	X201	2801-004033	CRYSTAL-UNIT;12MHZ,30PPM,28-AAM,30PF,30O	
⚠ ...3	SF101S	2904-001221	FILTER-SAW AV;45.75MHz,SIP5K,ST,14.2dB,M	
...3	SWN01	3404-000295	SWITCH-TACT;12VDC,50mA,160gf,8.4X22.7,SP	
⚠ ...3	RL801S	3501-001053	RELAY-POWER;5VDC,530MW,10000MA,1FORMA,15	
...3	FD802	3601-000281	FUSE-CARTRIDGE;250V,4A,TIME-LAG,GLASS,5.	
⚠ ...3	V999S	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	
...3	JA701	3722-002140	JACK-PIN;2P(9P),Ni,YEL/WHT,ANGLE	
⚠ ...3	T801S	AA26-00172B	TRANS SWITCHING-00;VD086,CPTTV,AC90V~AC2	
⚠ ...3	T444S	AA26-00201A	TRANS FBT;FCA173B,KS1A-1,3.8mH,FERRITE,1	
...3	T401	AA26-50001B	TRANS-HORIZ.DRIVE;-,-,-,7.1mH,-,-,102uH,	
...3	T0010	AA27-00296A	COIL CHOKE;220UH,CPTTV,220UH,10%,3A,DR14	
...3	T0296	AA27-30003L	COIL LINEARITY;-,73uH,DR12x15,0.55mm,-,B	
⚠ ...3	LX801S	AA29-00015A	FILTER LINE NOISE;WS32W8,28-20MH 1.5A,+-	
...3	D0254	AA32-00014A	MODULE REMOCON;346VF2,38KHZ,940MM,MESH,V	
...3	T0245	AA39-20620C	LEAD CONNECTOR-ASSY;,9P,500MM,YBNH250-09	
...3	CIS3	AA40-00016A	TUNER-F/S;TDQ-6F/13F2S,NTSC,181CH,45.75M	
⚠ ...3	IC801S	AA96-00242E	ASSY H/S;SCREW,AA62-30186B,1203-003467,O	S.N.A
....4	CIS1	0205-001154	OIL-SILICON;G746,-,-	S.N.A
....4	T0086	1203-003467	IC-PWM CONTROLLER;FSCQ0765RT-YDTU,TO-220	
....4	M0081	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A
....4	T0066	AA62-30186B	HEAT SINK-ES;-,-,-,SILVER,171J + COVER-H	S.N.A
...3	IC301	AA96-00244M	ASSY HEAT SINK P;SCREWAA64-00046A,LA7804	S.N.A
....4	CIS1	0205-001154	OIL-SILICON;G746,-,-	S.N.A
....4	T0088	1204-002121	IC-VERTICAL DEF.;LA78040N,TO220,7P,-,PLA	
....4	M0081	6003-000335	SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR	S.N.A
....4	T0175	AA62-00046A	HEAT SINK-PS;-,-,T1.0,-,D1(DREAM) 60X25X	S.N.A
...3	IC603	AA96-00244N	ASSY HEAT SINK P;SCREW,AA62-00046A,AN752	S.N.A
....4	CIS1	0205-001154	OIL-SILICON;G746,-,-	S.N.A
....4	T0124	1201-002050	IC-POWER AMP;AN7522N,SIP,12P,29.6x7.7mm,	
....4	M0081	6003-000335	SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR	S.N.A
....4	T0175	AA62-00046A	HEAT SINK-PS;-,-,T1.0,-,D1(DREAM) 60X25X	S.N.A
...3	IC802	AA96-00245A	ASSY HEAT SINK P;,AA62-00055A,KA7632	S.N.A
....4	IC062	1203-001939	IC-MULTI REG.;7632,SIP,10P,-,PLASTIC,3.3	
....4	M0081	6003-000334	SCREW-TAPTITE;RH,+,2S,M3,L6,ZPC(YEL),SWR	S.N.A
....4	T0175	AA62-00055A	HEAT SINK-PS;-,-,T1.0,-,35*15*25,D1,-,-,	S.N.A
...3	LD201	AA96-01710A	ASSY MISC P-LED GUIDE;LTL-307JGTH128R	S.N.A
...3	IC501	AA96-50311A	ASSY HEAT SINK P;-,VIDEO,AA62-30175D,TDA	S.N.A
....4	T0074	1201-001159	IC-VIDEO AMP;6107,ZSIP,9P,-,SINGLE,-,PLA	
....4	M0081	6003-000334	SCREW-TAPTITE;RH,+,2S,M3,L6,ZPC(YEL),SWR	S.N.A
....4	T0175	AA62-30175D	HEAT SINK-PS;-,SECC,T1.0,-,33X15X30 FT-2	S.N.A
...3	M0014	AA97-14822C	ASSY AUTO-MAIN;TXP2011X/XAP,KS9A	S.N.A
....4	D201	0401-000005	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
....4	D810	0401-000005	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
....4	D811	0401-000005	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
⚠ 4	DR003S	0401-000005	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
....4	D803	0401-000006	DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T	
....4	D804	0401-000006	DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T	
....4	D303	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
....4	D809	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
....4	D814	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
....4	D501	0402-000254	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP	
⚠ 4	DR001S	0402-000254	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP	
....4	D813	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L	
....4	D302	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,T	
....4	D403	0402-000540	DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP	
....4	D301	0402-001105	DIODE-RECTIFIER;ERB43-04SV1,400V,1A,TS-1	
....4	D304	0402-001105	DIODE-RECTIFIER;ERB43-04SV1,400V,1A,TS-1	
....4	D401	0402-001105	DIODE-RECTIFIER;ERB43-04SV1,400V,1A,TS-1	

Level	Loc.No.	Code No.	Description;Specification	Remark
....4	D502	0402-001105	DIODE-RECTIFIER;ERB43-04SV1,400V,1A,TS-1	
....4	D503	0402-001105	DIODE-RECTIFIER;ERB43-04SV1,400V,1A,TS-1	
....4	D504	0402-001105	DIODE-RECTIFIER;ERB43-04SV1,400V,1A,TS-1	
....4	D812	0402-001105	DIODE-RECTIFIER;ERB43-04SV1,400V,1A,TS-1	
⚠ 4	D801S	0402-001111	DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP	
⚠ 4	D802S	0402-001111	DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP	
⚠ 4	D803S	0402-001111	DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP	
⚠ 4	D804S	0402-001111	DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP	
⚠ 4	DR002S	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ211	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ213	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ215	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ216	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ401	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ402	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ807	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ810	0403-000508	DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO	
....4	DZ101	0403-000700	DIODE-ZENER;TZP33A,5%,1000MW,DO-41,TP	
....4	DZ303	0403-000700	DIODE-ZENER;TZP33A,5%,1000MW,DO-41,TP	
....4	DZ804	0403-000716	DIODE-ZENER;MTZJ4.7B,4.59-4.77V,500MW,DO	
....4	DZ201	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ202	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ203	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ204	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ205	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ206	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ306	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ307	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ501	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ502	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ503	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ504	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ806	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ808	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
....4	DZ801	0403-001140	DIODE-ZENER;RD10ESAB-T4,9.7-10.2V,400MW,	
....4	DZ305	0403-001221	DIODE-ZENER;UZ39BSB,35.36-37.19V,500MW,D	
....4	DZ802	0403-001318	DIODE-ZENER;MTZJ4.3B,4.17-4.43V,500MW,DO	
....4	DZ803	0403-001327	DIODE-ZENER;MTZJ18A,16.22-17.06V,500MW,D	
....4	DZ805	0403-001327	DIODE-ZENER;MTZJ18A,16.22-17.06V,500MW,D	
....4	DZ301	0403-001328	DIODE-ZENER;MTZJ22A,20.15-21.2V,500MW,DO	
....4	DZ302	0403-001328	DIODE-ZENER;MTZJ22A,20.15-21.2V,500MW,DO	
....4	DZ304	0403-001328	DIODE-ZENER;MTZJ22A,20.15-21.2V,500MW,DO	
....4	DZ212	0403-001373	DIODE-ZENER;MTZJ5.1A,4.85-5.03V,500MW,D0	
....4	DZ214	0403-001373	DIODE-ZENER;MTZJ5.1A,4.85-5.03V,500MW,D0	
....4	Q201	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
....4	Q203	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
⚠ 4	QR001S	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
....4	Q402	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1000mW,TO-	
....4	Q803	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1000mW,TO-	
....4	Q202	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
....4	Q601	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
....4	Q801	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
....4	Q802	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
....4	Q804	0502-001007	TR-POWER;KSC2073-H2,NPN,25W,TO-220,ST,6	
....4	IC012	1203-001217	IC-POSI.ADJUST REG.;431,TO-92,3P,4.58MIL	
....4	T0900	1404-001045	THERMISTOR-NTC;4.7ohm,15%,2900K,35.0mW,T	
⚠ 4	VX802S	1405-000152	VARISTOR;560V,2500A,14x8.5mm,TP	
....4	R207	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	R254	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	R255	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	R206	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R301	2001-000016	R-CARBON(S);1OHM,5%,1/2W,AA,TP,2.4X6.4MM	
....4	R843	2001-000019	R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R409	2001-000022	R-CARBON(S);33OHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R815	2001-000037	R-CARBON(S);330OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R823	2001-000037	R-CARBON(S);330OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R838	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R808	2001-000109	R-CARBON(S);470OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R252	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R258	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R232	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R615	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R107	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R211	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R233	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R235	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R237	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	

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....4	R240	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R241	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R242	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R243	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R244	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R245	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R262	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R263	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R264	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R510	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R511	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R512	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R614	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R713	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R224	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R238	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R249	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R291	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R807	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R828	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R842	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R225	2001-000325	R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM	
⚠ 4	RR003S	2001-000347	R-CARBON;13KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R205	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
⚠ 4	RR005S	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
⚠ 4	RR002S	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R239	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R247	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R833	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R234	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R236	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R253	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R256	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R257	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R259	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R214	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R829	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R208	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R220	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
⚠ 4	RR001S	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R202	2001-000689	R-CARBON;390KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R248	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R261	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R830	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R227	2001-000739	R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R228	2001-000739	R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R246	2001-000761	R-CARBON;430OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R621	2001-000773	R-CARBON;470KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R109	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R251	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R203	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R610	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R613M	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R110	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R250	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R108	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R222	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R212	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R215	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R707	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R504	2001-001062	R-CARBON(S);10MOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R414	2001-001078	R-CARBON(S);15KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R819	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R820	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4M	
⚠ 4	RR401S	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R836	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.	
....4	R840	2001-001108	R-CARBON(S);22KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R411	2001-001114	R-CARBON(S);270OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R405	2001-001116	R-CARBON(S);27OHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R818	2001-001121	R-CARBON(S);3.6KOHM,5%,1/2W,AA,TP,2.4X6.	
....4	R821	2001-001131	R-CARBON(S);33KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R805	2001-001170	R-CARBON(S);6.8OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R831	2001-001197	R-CARBON(S);910OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R501H	2002-001008	R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7	
....4	R502H	2002-001008	R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7	
....4	R503	2002-001008	R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7	
⚠ 4	RP801S	2002-001010	R-COMPOSITION;1.8Mohm,5%,1/2W,AA,TP,3.7x	

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⚠ 4	RY801S	2002-001012	R-COMPOSITION;8.2Mohm,5%,1/2W,AA,TP,3.7x	
....4	R802	2003-000537	R-METAL OXIDE(S);1Kohm,5%,1W,AF,TP,3.3x9	
....4	R827	2003-001023	R-METAL OXIDE(S);120ohm,5%,2W,AF,TP,3.9x	
....4	R407	2003-001040	R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x	
....4	R801	2003-001040	R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x	
....4	R834	2003-001040	R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x	
....4	R837	2003-001040	R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x	
....4	R315	2003-002009	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x	
....4	R316	2003-002009	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x	
....4	R403	2003-002151	R-METAL OXIDE;18KOHM,5%,2W,AG,TP,6X16MM	
....4	R402	2003-002178	R-METAL OXIDE(S);1Kohm,5%,2W,AG,TP,3.9x1	
....4	R803	2003-002239	R-METAL OXIDE(S);100KOHM,5%,2W,AF,TP,3.9	
....4	R804	2003-002239	R-METAL OXIDE(S);100KOHM,5%,2W,AF,TP,3.9	
⚠ 4	RR004S	2004-000729	R-METAL;3.9Kohm,1%,1/8W,AA,TP,1.8x3.2m	
....4	R306	2004-001371	R-METAL(S);1.5Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R307	2004-001371	R-METAL(S);1.5Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R817	2004-001377	R-METAL(S);120Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R424	2004-001402	R-METAL(S);6.8Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R423	2004-001407	R-METAL(S);82.5Kohm,1%,1/2W,AA,TP,2.4x6.	
....4	R219	2004-001914	R-METAL;39Kohm,2%,1/8W,AA,TP,1.8x3.5mm	
....4	R822	2004-001983	R-METAL(S);2.49Kohm,1%,1/2W,AA,TP,2.4x6.	
....4	R304	2008-000252	R-FUSIBLE(S);0.47ohm,10%,1/2W,AF,TP,2.5x	
....4	R305	2008-000252	R-FUSIBLE(S);0.47ohm,10%,1/2W,AF,TP,2.5x	
....4	R420	2008-000264	R-FUSIBLE(S);1ohm,5%,1W,AF,TP,3.9x10mm	
....4	R825	2008-000264	R-FUSIBLE(S);1ohm,5%,1W,AF,TP,3.9x10mm	
....4	R421	2008-000266	R-FUSIBLE(S);1ohm,5%,2W,AF,TP,3.9x10mm	
....4	R303	2008-000290	R-FUSIBLE(S);2.4ohm,5%,2W,AF,TP,3.9x10mm	
....4	R302	2008-001076	R-FUSIBLE(S);1.8ohm,5%,2W,AF,TP,3.9x10mm	
....4	R505	2008-001138	R-FUSIBLE;2.4OHM,5%,1W,AF,TP,3.9X10MM	
⚠ 4	FD801S	2008-001163	R-PICO FUSIBLE;10mohm,20%,1W,AA,TP,2.3x6	
....4	CR409	2201-000229	C-CERAMIC,DISC;0.15NF,10%,2KV,Y5P,TP,6.3	
....4	C302	2201-000259	C-CERAMIC,DISC;0.18NF,10%,500V,Y5P,TP,5.	
....4	C816	2201-000375	C-CERAMIC,DISC;0.22NF,5%,50V,RH,TP,12.5X	
....4	C811	2201-000406	C-CERAMIC,DISC;0.27NF,10%,2KV,Y5P,TP,6.3	
....4	C244	2201-000573	C-CERAMIC,DISC;0.047NF,5%,50V,C0G,TP,5X3	
....4	C245	2201-000573	C-CERAMIC,DISC;0.047NF,5%,50V,C0G,TP,5X3	
....4	C408	2201-000599	C-CERAMIC,DISC;0.56NF,10%,500V,Y5P,TP,5.	
⚠ 4	CR404S	2201-000639	C-CERAMIC,DISC;0.68NF,10%,2KV,Y5P,TP,9X5	
....4	C503	2201-000723	C-CERAMIC,DISC;4.7NF,20%,3KV,Y5U,TP,16X5	
....4	C806A	2201-000983	C-CERAMIC,DISC;1NF,10%,2KV,Y5P,TP,9X5MM,	
....4	C814	2201-002028	C-CERAMIC,DISC;0.47NF,10%,2KV,Y5P,TP,7.5	
....4	C111	2202-000127	C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V	
....4	C120	2202-000127	C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V	
....4	C243	2202-000127	C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V	
....4	C226	2202-000231	C-CERAMIC,MLC-AXIAL;0.33NF,10%,50V,Y5P,T	
....4	C223	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3	
....4	C224	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3	
....4	C239	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3	
....4	C505	2202-000825	C-CERAMIC,MLC-AXIAL;680pF,10%,50V,Y5P,TP	
....4	C211	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
....4	C217	2301-000004	C-FILM,LEAD-PEF;2.2nF,5%,100V,TP,5.5X10X	
....4	C234	2301-000004	C-FILM,LEAD-PEF;2.2nF,5%,100V,TP,5.5X10X	
....4	C248	2301-000013	C-FILM,LEAD-PEF;4.7nF,5%,100V,TP,10.5x12	
....4	C109	2301-000016	C-FILM,LEAD-PEF;22nF,5%,100V,TP,7.2x4.5x	
....4	C804	2301-000016	C-FILM,LEAD-PEF;22nF,5%,100V,TP,7.2x4.5x	
....4	C810	2301-000016	C-FILM,LEAD-PEF;22nF,5%,100V,TP,7.2x4.5x	
....4	C407	2301-000148	C-FILM,LEAD-PEF;10nF,5%,100V,TP,7x3.2x7m	
....4	C502	2301-000213	C-FILM,LEAD-PEF;220nF,5%,250V,TP,21.5x11	
....4	C309	2301-000253	C-FILM,LEAD-PEF;39NF,5%,100V,TP,7.5X4.5X	
....4	C214	2301-000289	C-FILM,LEAD-PEF;5.6nF,5%,50V,TP,7x6x3,5	
....4	C227	2301-000301	C-FILM,LEAD-PEF;6.8nF,5%,50V,TP,6.5X5.5X	
....4	C805	2301-000408	C-FILM,LEAD-PEF;2.7nF,5%,50V,TP,5.5x7x3m	
....4	C420	2301-001065	C-FILM,LEAD-PPF;47nF,5%,630V,TP,19x15.5x	
....4	C225	2301-001664	C-FILM,LEAD-OTHER;100nF,3%,50V,TP,20x16x	
....4	C312	2305-000149	C-FILM,LEAD-PEF;100nF,5%,100V,TP,12x12.5	
....4	C630	2305-000178	C-FILM,LEAD-PEF;10nF,5%,100V,TP,-,5mm	
....4	C634	2305-000178	C-FILM,LEAD-PEF;10nF,5%,100V,TP,-,5mm	
....4	C301	2305-000285	C-FILM,LEAD-PEF;220NF,5%,100V,TP,10.5X5.	
....4	C207	2305-000289	C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm	
....4	C215	2305-000289	C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm	
....4	C216	2305-000289	C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm	
....4	C233	2305-000289	C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm	
⚠ 4	CR405S	2305-000382	C-FILM,LEAD-PEF;4.7nF,5%,400V,TP,-,5mm	
....4	C238	2305-000412	C-FILM,LEAD-PEF;470nF,5%,63V,TP,-,5mm	
....4	C240	2305-000412	C-FILM,LEAD-PEF;470nF,5%,63V,TP,-,5mm	
....4	C103	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C208	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C210	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C218	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C222	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C230	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C242	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C247	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C632	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C635	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C803	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C819	2305-000665	C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x	
....4	C812	2401-000262	C-AL;100uF,20%,160V,HR,TP,16x25,7.5	
....4	C209	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
....4	C213	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
....4	C229	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
....4	C241	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
....4	C246	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
....4	C249	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
....4	C821	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
....4	C823	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
....4	C307	2401-000365	C-AL;100uF,20%,50V,WT,TP,10x12.5mm,	
....4	C308	2401-000365	C-AL;100uF,20%,50V,WT,TP,10x12.5mm,	
....4	C506	2401-000430	C-AL;10uF,20%,250V,GP,TP,10x16mm,5m	
....4	C203	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
....4	C220	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
....4	C231	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
....4	C802	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
....4	C807	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
....4	C820	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
....4	CP04	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
⚠ 4	CR01S	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
⚠ 4	CR02S	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
....4	C627	2401-000493	C-AL;10uF,20%,50V,LZ,TP,5x11mm,5mm	
....4	C219	2401-000603	C-AL;1UF,20%,50V,GP,TP,5X11,2	
....4	C403	2401-000625	C-AL;2.2uF,20%,160V,GP,TP,6.3x11,5	
....4	C212	2401-000649	C-AL;2.2uF,20%,50V,BP,TP,5x11,5	
....4	C827	2401-000927	C-AL;22uF,20%,250V,GP,TP,13x20,5	
....4	C110	2401-000962	C-AL;22uF,20%,50V,GP,TP,5x11,5	
....4	C504	2401-001232	C-AL;4.7uF,20%,250V,GP,TP,10x12.5,5	
....4	C304	2401-001838	C-AL;470uF,20%,25V,WT,TP,10x16,5	
....4	C616	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11,5	
....4	C636	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11,5	
....4	C637	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11,5	
....4	C815	2401-001998	C-AL;1000uF,20%,25V,GP,TP,10x20,5mm	
....4	C824	2401-001998	C-AL;1000uF,20%,25V,GP,TP,10x20,5mm	
....4	C306	2401-002288	C-AL;470uF,20%,25V,WT,TP,10x20,5	
....4	C813	2401-002290	C-AL;47uF,20%,160V,GP,TP,13x20,5	
....4	C101	2401-002594	C-AL;220uF,20%,16V,GP,TP,8x11.5,5	
....4	C237	2401-002619	C-AL;47uF,20%,25V,GP,TP,5x11,5	
....4	C406	2401-002619	C-AL;47uF,20%,25V,GP,TP,5x11,5	
....4	C817	2401-003028	C-AL;100uF,20%,25V,WT,TP,6.3x11,5	
....4	C818	2401-003028	C-AL;100uF,20%,25V,WT,TP,6.3x11,5	
....4	C631	2401-003139	C-AL;1000uF,20%,25V,WT,TP,10*20,5mm	
....4	L810	2701-000002	INDUCTOR-AXIAL;100UH,10%,4298	
....4	L103	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	
....4	L202	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	
....4	L204	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	
....4	L801	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	
....4	R101	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	
....4	R102	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	
....4	L203	2701-000127	INDUCTOR-AXIAL;15UH,10%,2534	
....4	L301	2701-000142	INDUCTOR-AXIAL;1UH,10%,2534	
....4	L302	2701-000142	INDUCTOR-AXIAL;1UH,10%,2534	
....4	L404	2701-000142	INDUCTOR-AXIAL;1UH,10%,2534	
....4	L230	2701-000159	INDUCTOR-AXIAL;22UH,10%,4298	
....4	L201	2701-000163	INDUCTOR-AXIAL;27UH,10%,3070	
....4	L205	2701-000177	INDUCTOR-AXIAL;33UH,10%,2534	
....4	L206	2701-000177	INDUCTOR-AXIAL;33UH,10%,2534	
....4	L307	2701-000178	INDUCTOR-AXIAL;33UH,10%,3070	
....4	L804	2701-001030	INDUCTOR-AXIAL;43UH,10%,4514	
....4	L303	2701-001034	INDUCTOR-AXIAL;22UH,10%,4514	
....4	L304	2701-001034	INDUCTOR-AXIAL;22UH,10%,4514	
....4	F101	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-	
....4	F101	2901-000299	FILTER-EMI ON BOARD;-,6A,UL/CSA,-,9x7.5,	
....4	F101	2901-000299	FILTER-EMI ON BOARD;-,6A,UL/CSA,-,9x7.5,	
....4	Z201	2903-000129	FILTER-CERAMIC;BR,4.5MHz,-,-,-,TP,-	
....4	L2514	3301-001223	BEAD-AXIAL;62ohm,3.5x0.8x5mm,,TP,,,	S.N.A
....4	L2514	3301-001223	BEAD-AXIAL;62ohm,3.5x0.8x5mm,,TP,,,	S.N.A

Level	Loc.No.	Code No.	Description;Specification	Remark
....4	L2514	3301-001223	BEAD-AXIAL;62ohm,3.5x0.8x5mm,,TP,,,	S.N.A
....4	L2514	3301-001223	BEAD-AXIAL;62ohm,3.5x0.8x5mm,,TP,,,	S.N.A
....4	L2514	3301-001223	BEAD-AXIAL;62ohm,3.5x0.8x5mm,,TP,,,	S.N.A
....4	L2514	3301-001223	BEAD-AXIAL;62ohm,3.5x0.8x5mm,,TP,,,	S.N.A
....4	L2514	3301-001223	BEAD-AXIAL;62ohm,3.5x0.8x5mm,,TP,,,	S.N.A
....4	SW201	3404-001252	SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1	
....4	SW202	3404-001252	SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1	
....4	SW203	3404-001252	SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1	
....4	SW204	3404-001252	SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1	
....4	SW205	3404-001252	SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1	
....4	F801A	3602-000114	FUSE-HOLDER;-,-,30mohm	
....4	F801B	3602-000114	FUSE-HOLDER;-,-,30mohm	
....4	CN906	3711-002643	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,STRAIGH	
....4	CN906	3711-002646	CONNECTOR-HEADER;BOX,7P,1R,2.5mm,STRAIGH	
....4	EL301	6042-000001	EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	S.N.A
....4	EL302	6042-000001	EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	S.N.A
....4	EL402	6042-000001	EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	S.N.A
....4	EL601	6042-000001	EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	S.N.A
....4	EL602	6042-000001	EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	S.N.A
....4	EL801	6042-000001	EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	S.N.A
....4	EL802	6042-000001	EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	S.N.A
....4	CN909	AA37-00001A	CONNECTOR-FBT FIX PIN;JM-3500,CPTTV,0.36	
....4	CN909	AA37-00001A	CONNECTOR-FBT FIX PIN;JM-3500,CPTTV,0.36	
....4	GT811	AA60-40014A	PIN-GT,ASSY;AUTO	
....4	GT811	AA60-40014A	PIN-GT,ASSY;AUTO	
....4	GT811	AA60-40014A	PIN-GT,ASSY;AUTO	
....4	R218	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R609	2001-000214	R-CARBON;1.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R611	2001-000214	R-CARBON;1.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R814	2001-001072	R-CARBON(S);12OHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R816	2001-001072	R-CARBON(S);12OHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	EY401	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY402	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY403	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY404	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY405	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY406	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY407	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY408	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY409	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY410	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY411	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY412	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY413	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY414	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY416	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY417	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY419	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY420	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY421	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY422	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY423	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY424	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY425	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY501	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY701	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY702	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY801	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY802	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY803	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY804	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY805	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY806	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY809	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY810	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY811	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY812	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY813	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY814	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY815	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY818	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY819	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY820	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY821	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY822	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY827	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY830	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	EY833	6042-000002	EYELET;ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	S.N.A
....4	T0077	AA41-01026C	PCB MAIN;CT-21M16,FR-1,C,245X245,KS9A,1A	S.N.A
⚠ ...3	CR403S	2301-001401	C-FILM,LEAD-PPF;27nF,5%,630V,TP,19x11x17	
⚠ ...3	CR406S	2306-000179	C-FILM,LEAD-PPF;300nF,5%,250V,TP,20x18.5	
...3	T0119	AA09-00471A	IC MICOM;TDA9377PS/N3/A,T-FMTNUS-1002,64	S.N.A
...3	CN401	AA60-40012F	PIN-GT;4P,2.36PI,6/12/14mm,NYLON66,LOCKI	S.N.A
...3	Q401	AA96-02906A	ASSY HEAT SINK P;AA62-00145A,SCREW,ST200	S.N.A
....4	CIS1	0205-001154	OIL-SILICON;G746,-,-	S.N.A
....4	H/S	0502-001255	TR-POWER;ST2001HI(028Y),NPN,55000mW,-,ST	
....4	M0081	6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW	S.N.A
....4	T0105	AA60-30001A	WASHER-PLATE;M3,ID3.5,15X8.5,T1.0,SBHG	S.N.A
....4	H/S	AA62-00145A	HEAT SINK;KS9A,A1050,T1.0,23,50,WHITE,PS	S.N.A
⚠ ...3	PD801S	AA60-40012G	PIN-GT;3P,2.36PI,10/5mm,NYLON66,LOCKING	S.N.A
..2	T0091	AA94-14821A	ASSY PCB MISC-A/V SIDE;CL21N11MJZXXAX,KS	
...3	T0245	0202-001366	SOLDER-WIRE FLUX;-,RS60S,D1.2,63Sn/37Pb,	S.N.A
...3	JA703	3722-001367	JACK-PIN;1P,3.4MM,AU,YEL,-	
...3	JA704	3722-001368	JACK-PIN;1P,3.4MM,AU,WHT,-	
...3	M0081	6003-001023	SCREW-TAPTITE;PWH,+,B,M3,L10,ZPC(YEL),SW	S.N.A
...3		AA97-15571A	ASSY AUTO-A/V SIDE;CL21N11MJZXXAX,KS9A	S.N.A
....4	0	AA41-00945A	PCB AV;14F10,1,A,245*245,K15D,15,SIDE-A/	S.N.A
...3	T0245	AA39-20070A	LEAD CONNECTOR-ASSY;,7P,300,YBNH025-07,6	
...3	T0011	AA61-00728J	HOLDER-AV ASSY;17N11,HIPS HB,G4309,SV012	S.N.A
....4	T0010	AA61-00619D	HOLDER-AV;17N11,HIPS HB,G4309,SV012P	S.N.A
....4	T0578	AA64-01729B	INLAY AV;21F5,PS SHEET,T0.3,-,-,BLK,KS1A	S.N.A

ASSY P/MATERIAL

Level	Loc.No.	Code No.	Description;Specification	Remark
1	M0113	AA92-08953A	ASSY P/MATERIAL;21N11	S.N.A
..2	T0376	6902-000001	BAG AIR;LDPE,T0.2,L1800,W1000,TRP,,,LDPE	S.N.A
..2	T0524	6902-000005	BAG PE;HDPE/NITRON/HDPE,T0.015/T0.5/T0.0	S.N.A
..2	T0214	AA60-40006A	PIN-STAPLE;AUTO,33X17.8X2.4,H18,33X17.8X	S.N.A
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,L1000,W500,TRP,,,	S.N.A

ASSY ACCESSORY

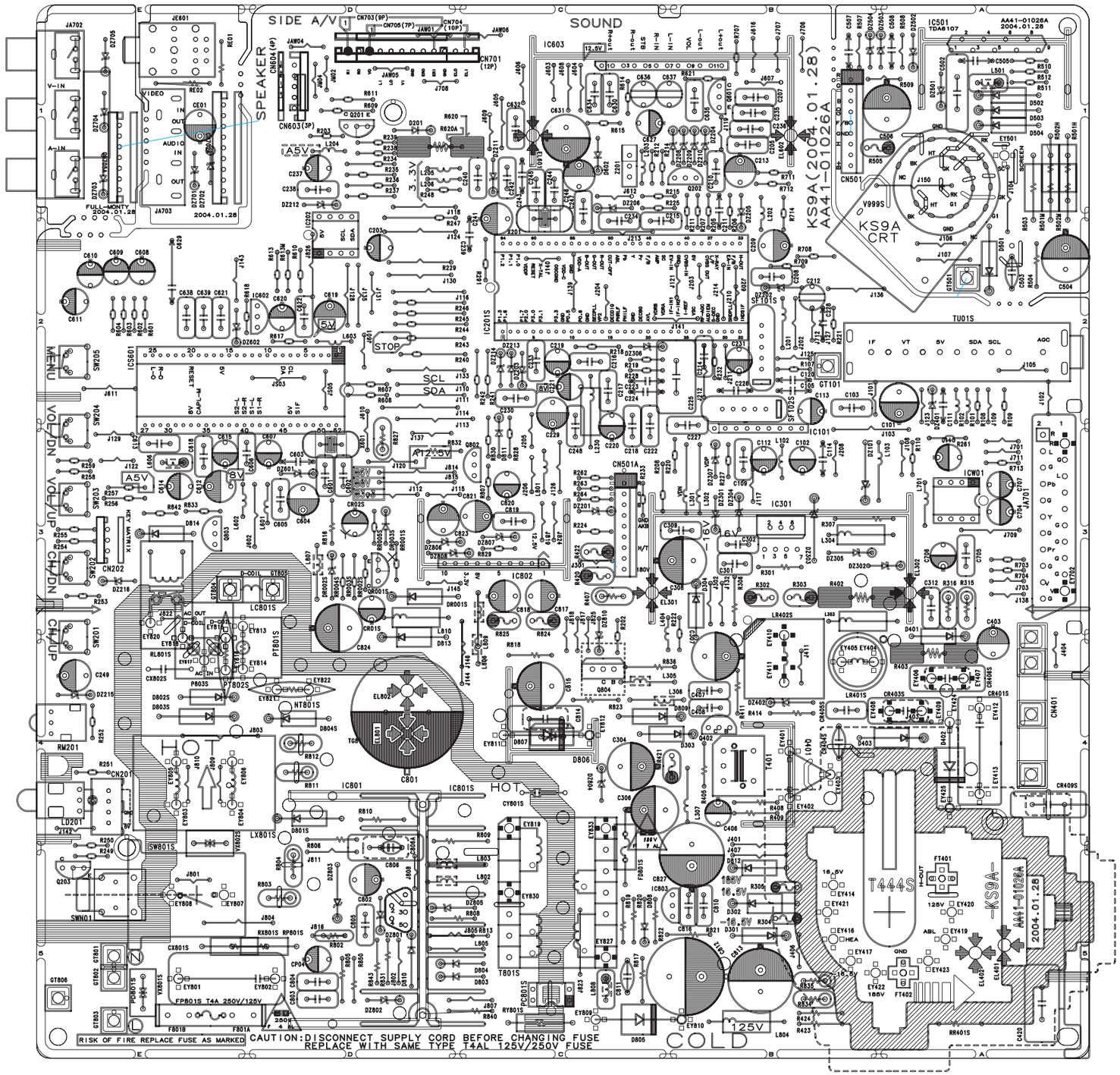
Level	Loc.No.	Code No.	Description;Specification	Remark
1	M0045	AA92-09640A	ASSY ACCESSORY;KS7A	S.N.A
..2	T0524	6902-000009	BAG PE;HDPE,T0.03,L400,W240,TRP,8,2,PE M	S.N.A
..2	T0074	AA59-00316C	REMOCON;TM75,ET,30,G6148A,NT,EX	
..2	T0152	AA68-00987A	CARD WARRANTY;-,-,W/P100,-,-,-,-,-,A4,1P	S.N.A
..2	0	AA68-03242B	MANUAL-SAFETY GUIDE;TH-ENG,SAFETY GUIDE	S.N.A
..2	T0511	AA68-03529A	MANUAL USERS;KS9A,LATIN,SPA,W/P120	S.N.A
..2	T0511	AA68-03530A	MANUAL USERS;KS9A,LATIN,ENG,W/P120	S.N.A

ASSY FIXING

Level	Loc.No.	Code No.	Description;Specification	Remark
1	T0892	AA91-07629C	ASSY FIXING;EP2/YES(H/C300),KS9A,FULLMON	S.N.A
..2	T0569	AA61-00356B	HOLDER-TUNER,F/JACK;501F,ABS,-,-,-,BLK,H	S.N.A
..2	T0016	AA65-30009A	CLAMPER CORE-FBT;-,ABS,V0,-,BLK,-	S.N.A
..2	CIS1	AA65-30018A	CLAMPER CORE-WIRE;DONG-A,NYLON-66,-,-,-,	S.N.A
..2	CIS1	AA65-30111A	CLAMPER CORE-WIRE;ALL MODEL,NYLON,V0,-,W	S.N.A
⚠ ..2	T0066	AA96-20129A	ASSY POWER CORD;-,EP2/YES,H/C300,ME301P,	S.N.A
...3		3811-001609	WIRE-PVC CU;BCWA,300V,ROLL,-,#22,BLK	S.N.A
...3	T0268	AA39-10007Y	CBF-POWER CORD;-,EP2/YES,SPT-2 18AWGx2C,	
...3	T0010	AA61-20284A	HOLDER;P-CORD,PP,-,-,-,BLK,VO,KE-002	S.N.A

5. PCB Diagram

5-1 MAIN PCB



6. Schematic Diagrams

6-1 MICOM

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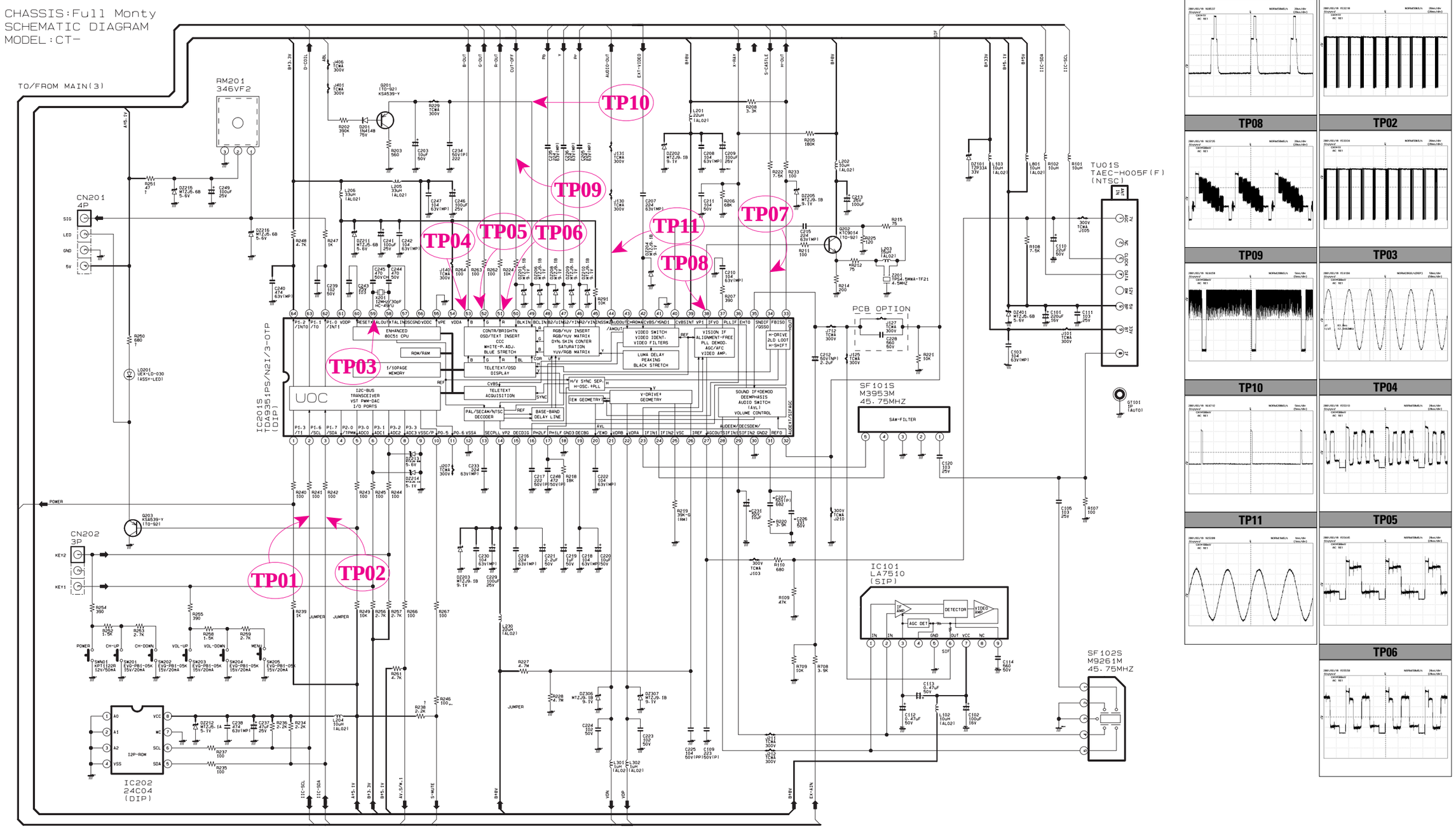

6-2 POWER

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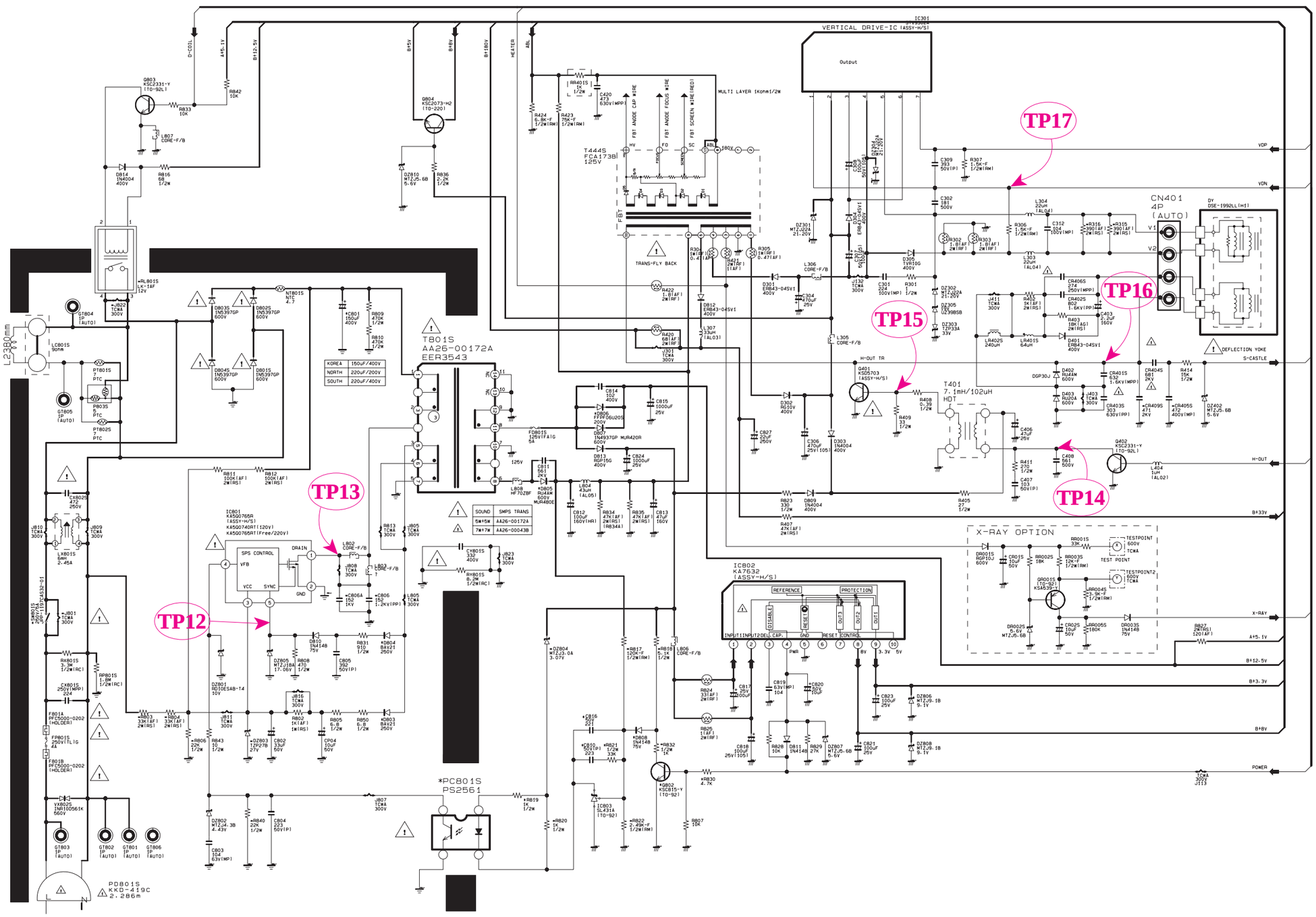

6-3 AUDIO / SIDE AV

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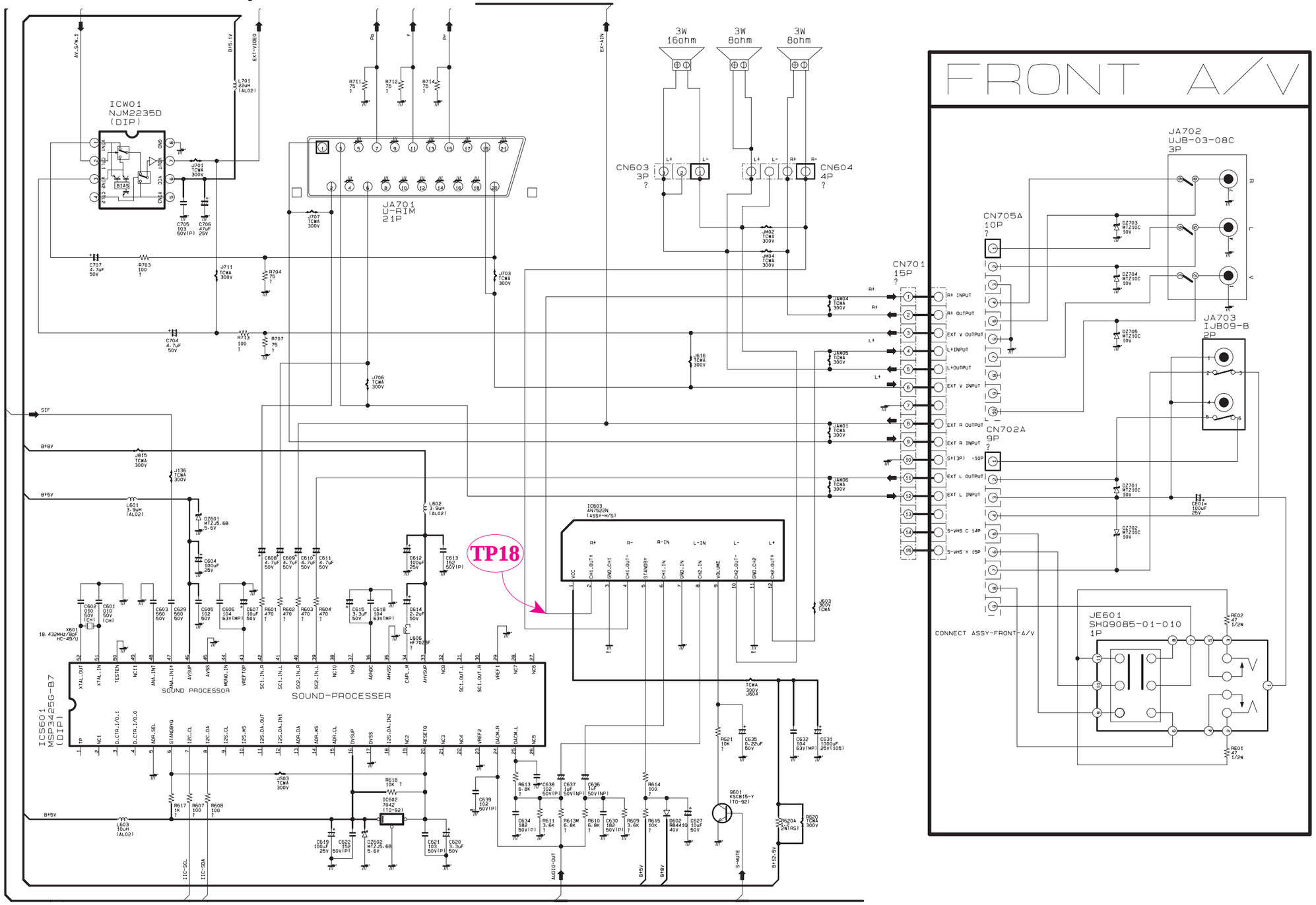

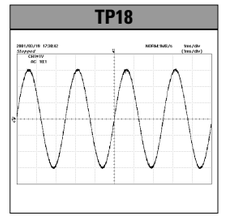

6-3 CRT

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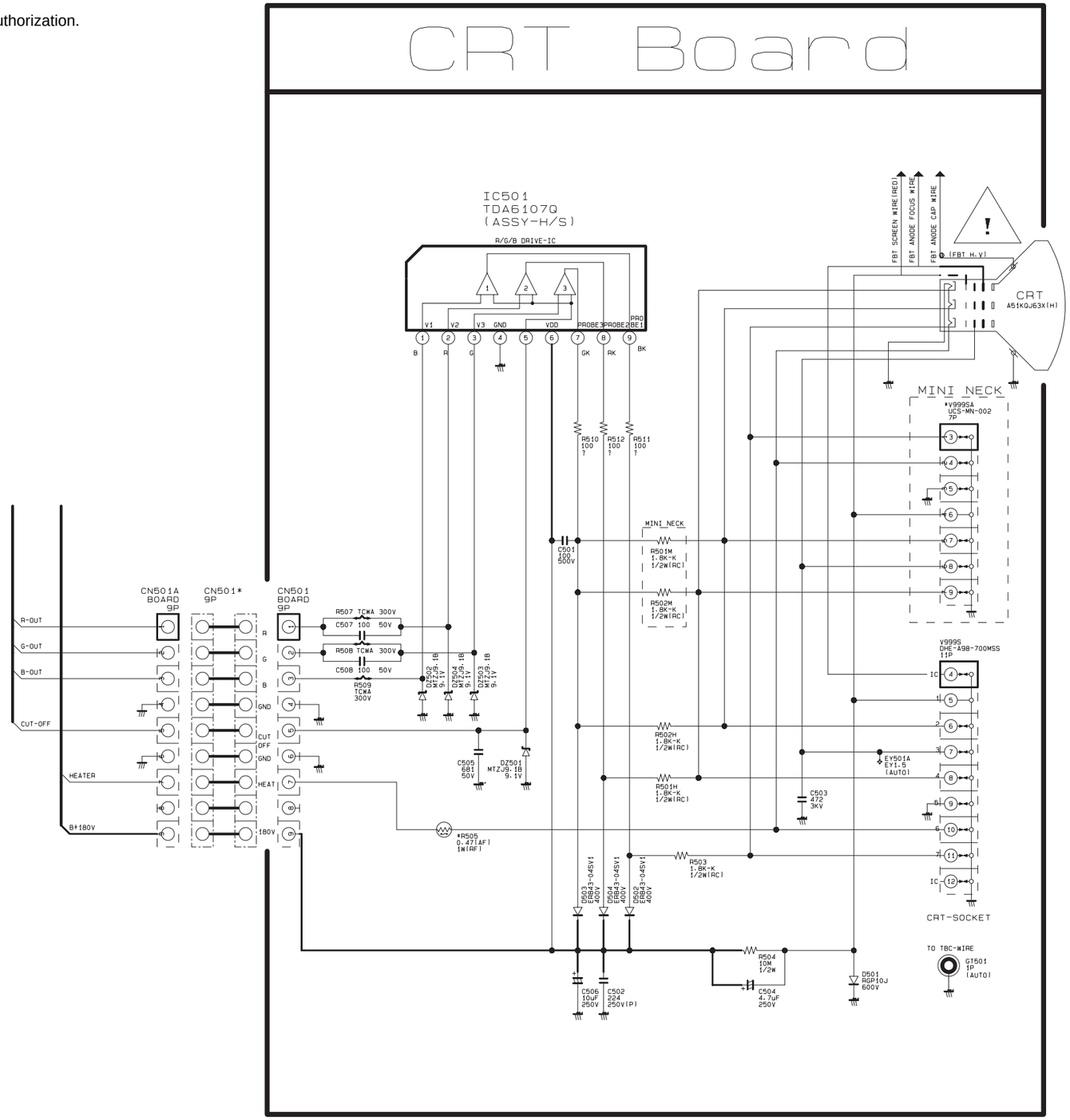
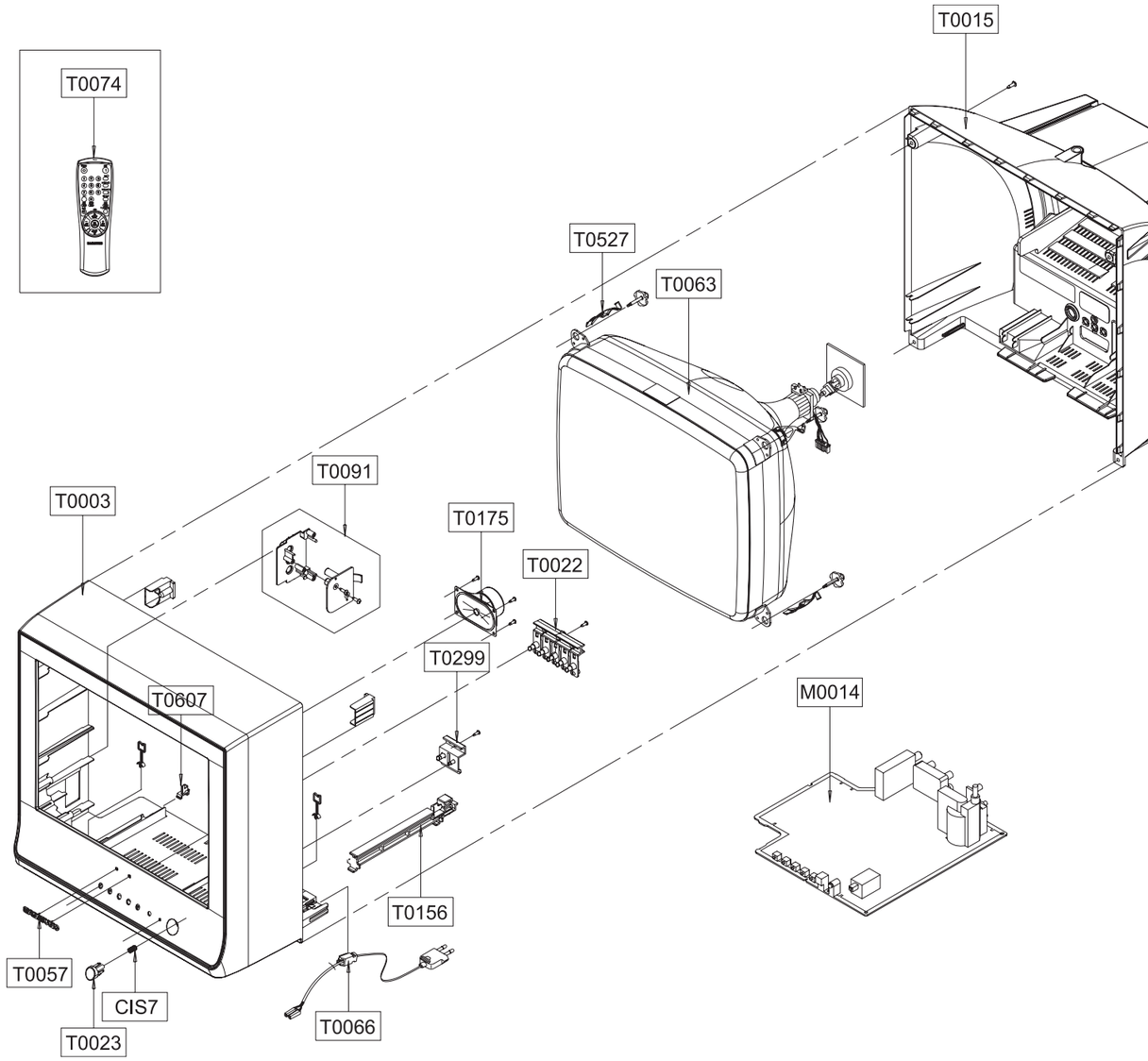


3. Exploded View & Part List

3-1 TXP2011T/XAP

Yon can search for the updated part code through ITSELF web site.
URL:http://itself.sec.samsung.co.kr



Loc.No.	Code No.	Description;Specification	Q'ty	S.N.A
CIS7	AA61-60003J	SPRING ETC-CS;-,SUS304,-,-,OD6,N7,OD6,-,	1	S.N.A
M0014	AA94-14012C	ASSY PCB MAIN;TXP2011X/XAP,KS9A	1	
T0003	AA64-03922G	CABINET FRONT;21N11,HIPS,T2.0,V0,G4309,S	1	S.N.A
T0015	AA64-03923A	CABINET BACK;21N11[HQ],HIPS,V0,G4309	1	
T0022	AA64-03653A	KNOB CONTROL;17N11,ABS,HB,G3676,SVM3012	1	S.N.A
T0023	AA64-03654A	KNOB POWER;17N11,ABS,HB,G3676,SVM3012	1	S.N.A
T0057	AA64-70123A	BADGE-BRAND;NEW,AL,L50,FLAT,SILVER,SAMSU	1	
T0063	AA03-00403A	CRT COLOR;A51QDX993X,0MG,1.75MH,18MH,3.1	1	
T0066	AA96-20129A	ASSY POWER CORD;-,EP2/YES,H/C300,ME301P,	1	S.N.A
T0074	AA59-00316C	REMOCON;TM75,ET,30,G6148A,NT,EX	1	
T0091	AA94-14821A	ASSY PCB MISC-A/V SIDE;CL21N11MJZXXAX,KS	1	
T0156	AA61-00721C	HOLDER-RAIL;H4,HIPS,V0,GRAY	1	S.N.A
T0175	AA96-00371B	ASSY SPEAKER P;-,8ohm,5W,3001-001072,350	1	S.N.A
T0299	AA64-03652A	WINDOW-RMC LED;17N11,PC,CLEAR	1	S.N.A
T0527	AA65-00009B	CLAMPER CORE-D,COIL;21A8,NYLON 66,V0,-,-	4	
T0607	AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	1	